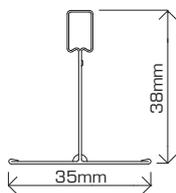


## Data Sheet

# STEEL STRONG B35

### DESCRIPTION

#### ATENA STEEL STRONG B35

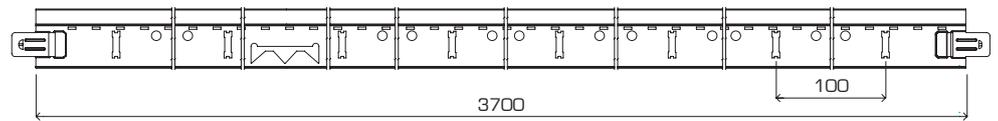


Steel Strong B35 is a strong and steady structure designed to bear higher loads, keeping the aesthetic effect of the white visible side to realize Atena Metal Modular false ceilings.

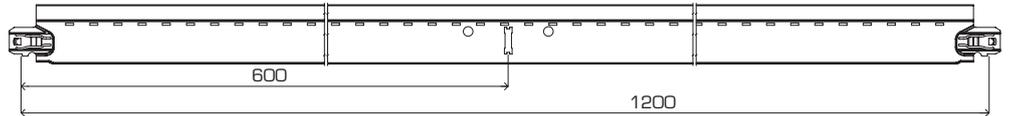
<b>PRODUCT FAMILY:</b>	Visible structure - base 35 (nominal)
<b>HOOK MATERIAL:</b>	Stainless steel 4 mm thick.
<b>STRUCTURE MATERIAL:</b>	<b>Main profile:</b> Galvanised steel DX51D+Z100 thick. 0,35 mm <b>Cross T profile:</b> Galvanised steel DX51D+Z100 thick. 0,35 mm
<b>COVERING MATERIAL:</b>	White pre-painted steel thick. 0,30 mm
<b>BOTTOM END CONNECTION:</b>	<b>Main Profile:</b> head to head connection with printed hook  <b>Cross T profile:</b> with printed hook
<b>FINISHING:</b>	Galvanized or white coating
<b>FEATURES:</b>	High resistance to torsion stress, high stability of the structure. Hooking mode with click system.
<b>PACKAGING:</b>	Light brown boxes
<b>CERTIFICATIONS:</b>	
<b>REACTION TO FIRE:</b>	The system complies with European Standards EN13964:2014 4.4.2.1 EN 13501 - 1 euroclasse A1
<b>RELEASE OF DANGEROUS SUBSTANCES:</b>	No release of dangerous substances according to European Law EN 13964:2014
<b>RESISTANCE TO FIRE:</b>	Maximum span mm 1200 - Class 1
<b>DURABILITY OF GALVANIZED ITEMS:</b>	Class B
<b>DURABILITY OF POST-PAINTED ITEMS:</b>	Class C

## STRUCTURE

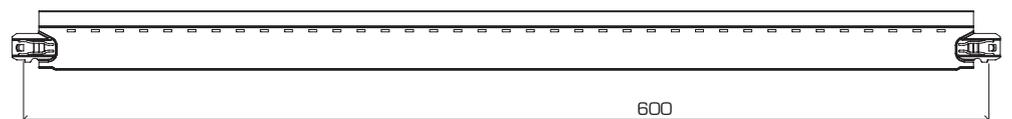
Main T  
Profile  
3700



Cross T  
Profile  
1200



Cross T  
Profile  
600

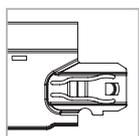


## DIMENSION

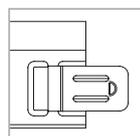
Code	Length B35	Dimension	Pieces per box	Weight / box	Weight / pallet
RA135370BRTAT	3700 mm	35 x 38	12	19 kg	720 kg
RA135120BRTAT	1200 mm	35 x 38	28	14 kg	900 kg
RA135060BRTAT	600 mm	35 x 38	42	10 kg	1056 kg

SECTION			
	Length B35	3700 mm	1200 mm
Incidences 600x600	0,85 ml/m <sup>2</sup>	1,70 ml/m <sup>2</sup>	0,85 ml/m <sup>2</sup>
Incidences 600x1200	0,85 ml/m <sup>2</sup>	1,70 ml/m <sup>2</sup>	/

## HOOKS



B35 Hook



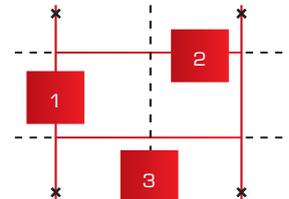
Main T hook

STEEL STRONG B35 CROSS T profiles have a printed hook, which ensures an uniform stress absorption.

## BEARING CAPACITY

Maximum load = 15 Kg/m<sup>2</sup>  
Maximum deflection = L / 360

Lab test Cert TV



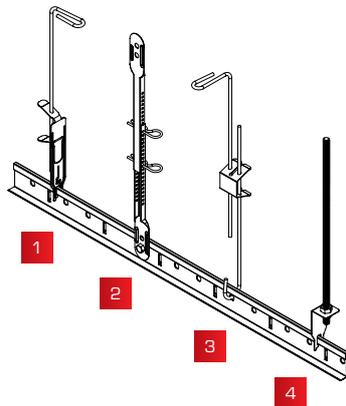
For different inflections, see this following table

MAXIMUM DEFLECTION	L/300	L/360	L/400	L/500
MULTIPLIER	1,2	1	0,9	0,72

(1) 3700 Main T profile | (2) 1200 Cross T C | (3) 600 Cross T

## HANGERS

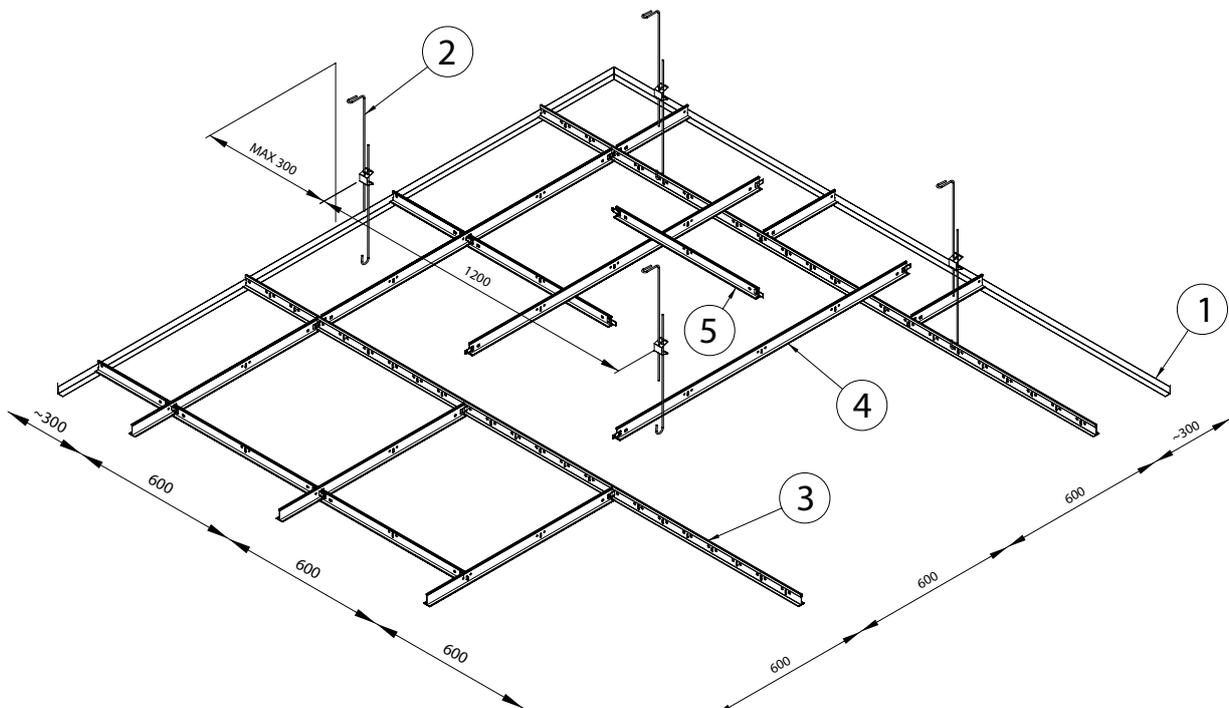
- |                         |
|-------------------------|
| 1) Twister              |
| 2) Nonius               |
| 3) Standard with spring |
| 4) 90° hanger           |



## LAYING INSTRUCTIONS

- Draw the lines of the perimeter frame.
- Determine the height of the ceiling with a level and mark it with a spring.
- Proceed with the installation of the structure:
  1. Install the wall angles with nails, screws and/or plugs suitable to the wall material.
  2. Fix the hangers according to the type of ceiling to install.
  3. Install the main runners with an interaxe of 1200 mm\*.
  4. Proceed with the installation of 1200 mm cross T profiles into the main carrier.
  5. Insert 600 mm Cross T into 1200 mm Cross T profiles.

To set up a proper coupling of the structure, hold the left side of the punched profile and press slightly to snap the clip into place. The click ensures the proper attachment of the structure. To release, press the tab of the locking clip and remove the profile.



\*Verify the interaxe according to the load on  $m^2$  and particular conditions.

## STORAGE MODE

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In order to guarantee to customers the realization of a perfect false ceiling, materials supplied by Atena S.p.A. shall be maintained in good conditions from purchase to installation.

They must be stored in a closed, clean and dry site.

Atena S.p.A. protects its products with resistant packaging under normal handling.

Please handle packages with care to avoid shocks and inappropriate handling that might damage what is provided.

Tiles are packaged in brown cardboard boxes with stripe and delivered on pallets secured with cellophane.

The manual handling must be carried out with caution and in compliance with safety regulations at work.

For carriage of packaged products on pallets, provide a mechanical transport to avoid damages or risks resulting from inadequate transport.

## CLEANING, MAINTENANCE AND REMOVAL

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Cleaning and maintenance require some attention and care even though are easy to make and don't take much time. It is necessary to use neutral and not aggressive soaps. In case of any damage, tiles can be repainted or replaced.

False ceilings maintenance usually refers to:

placing, alignment or replacement of damaged or broken tiles. Panels can be also removed for restoration or maintenance of the system below.

The maintenance work shall be appointed to: specialised workers trained with technical data sheets about setting, removal and maintenance of the false ceilings, in order to ensure excellent results.

The tiles shall be taken off simply by pushing them upwards from the T grids and turning them to one side for an easy removal.

Using inadequate tools can damage the structure, causing adherence loss or even accidental panel fall.

All the maintenance intervention must follow the technical data sheet indication and every noted diversity has to be promptly reported.

Each worker assigned with maintenance operation must carefully remove the tile, perform the intervention and do not alter the false ceiling structure, the hanging system and the connection between these elements.

When the maintenance is over, install again the panels, verifying that the tiles are properly laid on the T profile and the planarity is guaranteed. Any difference in tiles level is caused by wrong installation and, for this reason, they must be quickly controlled.

## LAWS REFERENCE AND WARRANTY

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Each Atena false ceiling is produced for internal use according to the technical rules for construction EUROCODICE and the specific regulations UNI EN 13964:2014, 14195:2005.

Each Atena S.p.A. product has its own DOP (Declaration Of Performance) CE according to the European Law 305/2011.

False ceilings and claddings for internal and external use have to be dimensioned on environment features, to list some of the possible examples: earthquakes, wind, thermal expansion, place of installation, use destination of the building and project requests.

Independently by information, suggestions, advices and technical opinions exchanged between the parts, Atena S.p.A. will produce its products only according to the orders received and the technical drawings/projects attached, having no responsibility on what is not indicated in the order, in the technical drawings or in the project.

Atena S.p.A., as producer, is responsible for manufacturing defects. Complaints have to be presented according to the selling conditions. Materials used for Atena false ceilings have been produced just with this purpose, every other use is considered improper.